

ABSTRACT

A modular hydraulic turbine made of a small number of components that are cast or molded, and that can easily be assembled and/or interchanged whenever required. The turbine has a cylindrical inlet unit through which water may enter and an angular tubular outlet unit through which water may enter and escape; a central cone-shaped hub having a plurality of incurved blades; a shaft having a front end extending into the hub and a rear end portion engaging and extending outside the outlet unit; a hollow rotor rigidly connected to the shaft and having a plurality of incurved blades, the rotor causing the shaft to rotate when water flows inside the turbine; and a watertight casing for rotatably supporting the rear end of the shaft. The rear end portion of the shaft of the turbine is devised to be connected to a power generator, especially an electric generator, to produce energy upon rotation of the shaft. Depending on its size and the strength of the water stream, from 10 to 1200 kW/hour can easily be generated.

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